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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,262	10/20/2003	Min-Chieh Chou	64,600-126	2887
570	7590 09/21/2005		EXAM	INER
AKIN GUMP STRAUSS HAUER & FELD L.L.P. ONE COMMERCE SQUARE			NGUYEN, JIMMY	
	ET STREET, SUITE 220	0	ART UNIT	PAPER NUMBER
	HIA, PA 19103		2829	

DATE MAILED: 09/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    The MAILING DATE of this communication appears on the cover sheet with the correspondence address		Application No.	Applicant(s)
Examiner Jimmy Nguyen 2229 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 3 °C FR 1.135(b). In no eved, however, may a raply be timely filled all of SIX (s) MONTHS from the mailing date of this communication.  - If the period for raply specified above is less intermediated period for reply which the station of this (75) legisles (15) MONTHS from the mailing date of this communication.  - If the period for raply specified above is less intermediated period for reply which the station of this (75) legisles (15) MONTHS from the mailing date of this communication.  - If the period for raply specified above is less intermediated period for reply with the station of this (75) legisles (15) MONTHS from the mailing date of this communication.  - If the period for raply reply with the station of this (75) legisles (15) MONTHS from the mailing date of this communication, even if timely filled, may reduce any centre during the specification is office that this filled on 29 August 2005.  - Status  - If the period for the specification is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  - Application of Claims  - Application of Claims  - Application is sidare allowed.  - Claim(s)			
Jimmy Nguyen 2929	Office Action Summary		
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of litters may be available under the pervisions of 37 CFR 1.13(ii), in no event, however, may a taply be limbly filed.  - Extensions of litters may be available under the pervisions of 37 CFR 1.13(ii), in no event, however, may a taply be limbly filed.  - If INO period for reply is specified abover, the maximum statutory preject vitil apply and the statutory minimum of thisty (30) days will be considered timely.  - If INO period for reply is specified abover, the maximum statutory preject vitil apply and the gibe Stx (8) MCNTHS from the mailing date of this communication.  - Failure to reply which the side of searching priority of the maximum statutory preject will apply and the gibe Stx (8) MCNTHS from the mailing date of this communication, even if timely filed, may reduce alony examed patent term adjustment. See 37 CFR 1.704(ii).  - Status  - Status  - Status  - Status  - Status  - Status  - Application is FINAL.  - Application is final.  - Application is polication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  - Application of Claims  - Application of Claims  - Application is a state allowed.  - Claim(s)	The MAILING DATE of this communication		
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provision of 37 CPR 1.136(a). In no event, bowwer, may a raply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  If the period reply prefiled the provision of 37 CPR 1.136(a). In no event, bowwer, may a raply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  Fallules to reply visible in the set or oxineded period for raply will, by statute, cause the application to become ABANDONED (35 U.S.C.§ 133). Any reply received by the Office table than three months after the mailing date of this communication, even if timely filed, may reduce any seamed patent term adjustment. See 37 CFR 1.704(b).  Status  1)  Responsive to communication(s) filed on 29 August 2005.  2a)  This action is FINAL.  2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-35 7, 13, 18 - 25 33, 34, is/are pending in the application.  4a) Of the above claim(s) 26 - 32 is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are objected to.  5)  Claim(s) is/are objected to.  7)  Claim(s) is/are objected to.  Priority under 35 U.S.C. § 119  12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * o  None of:  1.  Certified copies of the priority documents have been received in Application No  2.  Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies on received.		rappouro on the cover once th	.a. me der coperacióe adarcos
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Paper No(s)/Mail Date 6)  Other:	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SI	B/08) 5) Notice of	Informal Patent Application (PTO-152)

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#### **DETAILED ACTION**

### **Response to Argument**

The examiner acknowledges that RCE filed 8/29/05.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1 - 3 5, 7, 13, 18 – 25, 33, 34, are rejected under 35 U.S.C. 102(e) as being anticipated by Zhou et al (US 2005/0035775).

As to claim 1, Zhou et al disclose (fig 3) a probe module comprising:
a probe base (200) having a plurality of conductive traces (63, 62, 52, 30);
a plurality of probe pins (30) attached to probe base (200), each of the probe pins
(28,30) comprising an elongated body (middle section of 30), wherein at least part of
the elongated body (middle section of 30) is bonded (when it comes into contact) to the
plurality of conductive metal traces (63, 62, 52, 30) of the probe base (200); and

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a circuit interconnect device (130) for connecting said plurality of probe pins (30) to an inspection apparatus (by connection 124).

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As to claim 2, Zhou et al disclose (fig 3) the probe module of claim 1 wherein each of said plurality probe pins (30) further comprises a probe pin head extending from probe pin body (middle section of 30) and generally tapered probe pin tip (see fig 6) provided on said probe pin head.

As to claim 3, Zhou et al disclose (figs 3, 4) the probe module of claim 1 wherein said circuit interconnect device (100) comprises a plurality of conductive probe circuits (150) provided on said probe base (201) in electrical contact with said plurality of probe pins (230), respectively, and a flexible circuit board (220) provided in electrical contact with said plurality of conductive probe circuits (150, by 222).

As to claims 5, 13, 20, 24, Zhou et al disclose (figs 3, 4, 6) each of the plurality of probe pins (28,30) further comprises a probe pin head supported by the probe pin body (30) and generally semi-spherical probe pin tip or Tetrahedral provided on the probe pin head (see fig 6).

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As to claims 7, 23, Zhou et al disclose (figs 3, 4, 6) a compression arm (141) attached to probe base (200) and engaging plurality of probe pins (30).

As to claim 18, Zhou et al disclose (figs 3, 4, 6) a probe pin for a probe module having a probe base comprising:

A probe pin body (middle section of probe pins 30) that is elongated and has at least a portion bonded to a conductive metal trace (63, 62, 52, 30) of the probe base (200);

A probe pin head extending from the probe pin body (middle section of 30); and A probe pin tip (30) provided on the probe pin head (44).

As to claim 19, Zhou et al disclose (figs 3, 4, 6) the probe pin tip (30) has a generally polyhedral configuration.

As to claim 21, Zhou et al disclose (figs 3, 4, 6) a probe module comprising:

A probe base (201) having a plurality of conductive metal traces (222), the probe base (201) being defined by a first end (probe pins surface) and a second end (test head surface);

A plurality of probe pins (230) electrically connected to the conductive metal traces (222) of the first end of the probe base (201); and

the plurality of conductive metal traces (222).

A flexible circuit board (220) electrically connected to the conductive metal traces (222) of the second end of the probe base (201), thereby allowing the plurality of the probe pins (230) to be electrically connected to the flexible circuit board (220) via

As to claim 22, Zhou et al disclose (figs 3, 4, 6) a probe module comprising:

The probe module wherein the flexible circuit board (220) couples the probe pins (230) to a testing unit via the conductive metal traces (222).

As to claim 25, Zhou et al disclose (figs 3, 4, 6) the probe pins include an elongated arm body (the middle section of 30) such that at least a part of the elongated arm body is attached with the probe base (200).

As to claim 33, Zhou et al disclose (figs 3, 4, 6) the probe module of claim 2 1 wherein the plurality of probe pins (230) are electrical connected to the conductive metal traces (222) of the first end of the probe base (201) by being bonded to the probe base, and the flexible circuit board (220) is electrically connected to the conductive metal traces (222) of the second end of the probe base by being bonded to the probe base.

As to claim 34, Zhou et al disclose (figs 3, 4, 6) the probe module of claim 7, further comprising at least one adjustment screw (205) provided on the probe base (201) that can be manipulated to adjust the compression arm against the plurality of probe pins to adjust the contact angle of the probe pins.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy Nguyen whose telephone number is (703) 306-5858. The examiner can normally be reached on M-F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ramtiez Nestor, can be reached on 571-272-2034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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